



OPERATING PERMIT Issued Pursuant to Tennessee Air Quality Act

Date Issued: June 4, 2015

Permit Number:

069318P

Date Expires: March 31, 2025

Issued To:

ASPEN TECHNOLOGIES, INC.

Installation Address:

1335 Manchester Industrial Pkwy.
Manchester

Installation Description:

Coating of Product Molds (forms) using
Product Release Material and One Spray
Booth w/Exhaust Filter Control
Consists of Four Production Lines -
One of Four Lines Is Also Equipped for Painting Molds

Emission Source Reference No.

16-0213-01

The holder of this permit shall comply with the conditions contained in this permit as well as all applicable provisions of the Tennessee Air Pollution Control Regulations.

Conditions:

1. The application that was utilized in the preparation of this permit is dated **May 30, 2014** (updated **August 11, 2014**) and signed by **Daniel F. Knezevich**, New Program Development Manager of the permitted facility. If this person terminates employment or is assigned different duties and is no longer the responsible person to represent and bind the facility in environmental permitting affairs, the owner or operator of this air contaminant source shall notify the Technical Secretary of the change. Said notification shall be in writing and submitted within thirty (30) days of the change. The notification shall include the name and title of the new person assigned by the source owner or operator to represent and bind the facility in environmental permitting affairs. All representations, agreement to terms and conditions and covenants made by the former responsible person that were used in the establishment of limiting permit conditions on this permit will continue to be binding on the facility until such time that a revision to this permit is obtained that would change said representations, agreements and covenants.

(Continued on the next page)


TECHNICAL SECRETARY

No Authority is Granted by this Permit to Operate, Construct, or Maintain any Installation in Violation of any Law, Statute, Code, Ordinance, Rule, or Regulation of the State of Tennessee or any of its Political Subdivisions.

NON-TRANSFERABLE

POST AT INSTALLATION ADDRESS

CN-0827 (2-13)

RDA-1298

2. Volatile organic compounds (VOC) emitted from this facility shall not exceed **42.7** tons during any period of 12-consecutive months. Compliance with this limit shall be demonstrated from the records required by **Condition 6**.

This emission limitation is established pursuant to Rule 1200-03-07-.07(2) of the Tennessee Air Pollution Control Regulations.

3. Particulate matter emitted from this source shall not exceed **0.02** grains per dry standard cubic foot of exhaust gas (**1.03** pounds per hour). The paint application process shall not operate without the use of exhaust filter control.

This emission limitation is established pursuant to Rule 1200-03-07-.04(1) of the Tennessee Air Pollution Control Regulations.

4. Visible emissions from this source shall not exhibit greater than twenty percent (**20%**) opacity, except for one (**1**) six-minute period in any one (**1**) hour period and for no more than four (**4**) six-minute periods in any twenty-four (**24**) hour period. Visible emissions from this source shall be determined by EPA Method 9, as published in the current 40 CFR 60, Appendix A (six-minute average).

This condition is established pursuant to Rules 1200-03-05-.03(6) and 1200-03-05-.01(1) of the Tennessee Air Pollution Control Regulations.

5. The as-supplied VOC content of all VOC-containing materials and the as-supplied hazardous air pollutant (HAP) content of all HAP-containing materials to be used by sources at this facility shall be determined from MSDS or manufacturer or vendor formulation data, which explicitly list the VOC and the HAP content by weight.

6. The permittee shall calculate the actual quantities of VOC and HAPs emitted from this facility for each calendar month and maintain records of these emissions in the following tabular format or an alternative format which readily provides the same required information that shows compliance with **Condition 2** of this permit (see example below). HAPs emissions records are required to show that emission levels are below Title V threshold. This log must be maintained at the source location and kept available for inspection by the Technical Secretary or a Division representative. This log must be retained for a period of not less than two (**2**) years.

LOG 1 - Monthly Log for VOC/HAPs Emissions for **16-0213-01**

Month _____ Year _____

Process Material	Usage (gal/mo)	Material Density (lb/gal)	VOC Content (lb/gal)	VOC Emissions (ton/mon)	HAP i Content (lb/gal)	HAP i Emissions (ton/mo)	Total HAP Content (lb/gal)	Total HAPs Emissions (ton/mo)
Mold Release								
Thinner(s)								
Clean-up solvent								
Etc.								
Totals:								

Note: i = 1, 2, 3 ... n = the number of different hazardous air pollutants. Use columns as required for the number of different hazardous air pollutants.

LOG 2 - 12-Consecutive Months Log For VOC/HAPs Emissions for 16-0213-01

[illegible]

- (1) This log lists the individual month totals.
- (2) The totals for 12-consecutive months on this log must comply with the requirements in **Condition 2**.
- (3) The Tons per 12 Month value is the sum of the VOC (or HAP) emissions in the 11 months preceding the month just completed plus (+) the VOC (or HAP) emissions in the month just completed. If data is not available for the 11 months preceding the initial use of this Table, this value will be equal to the value for tons per month. For the second month it will be the sum of the first month and the second month. Indicate, in parentheses, the number of months summed [i.e., 6 (2) represents 6 tons emitted in 2 months]. This log is the total amount of VOCs and HAPs emitted to the air on a 12-consecutive month basis.

7. If this facility has actual emissions from stationary sources (including sources considered insignificant activities) of **10.0** tons or more of a single hazardous air pollutant (HAP) or **25.0** tons or more of multiple HAPs during a 12-month period, this information shall be reported to the Technical Secretary within **15** days of the date of discovery.
8. Routine maintenance, as required to maintain specified emission limits, shall be performed on the air pollution control devices. Maintenance records shall be recorded in a suitable permanent form and kept available for inspection by the Division. These records must be retained for a period of not less than two **(2)** years.

1200-03-10-.02(2)(a)
9. All data, including all required calculations, must be entered in the log no later than thirty **(30)** days from the end of the month for which the data is required.
10. Purchase orders and invoices or a record of purchase orders or invoices for all VOC containing materials must be maintained and kept available for inspection by the Technical Secretary or a Division representative. These orders and invoices must be retained for not less than two **(2)** years.

1200-03-10-.02(2)(a)
11. Excess emissions due to malfunction, start-up, and shutdowns shall be addressed as specified in Chapter 1200-03-20 of the Tennessee Air Pollution Control Regulations.
12. This source shall operate in accordance with the terms of this permit and the information submitted in the approved permit application. TAPCR 1200-03-09-.01
13. This source shall comply with all applicable state and federal air pollution regulations. This includes, but is not limited to, federal regulations published under 40 CFR 63 for sources of hazardous air pollutants and 40 CFR 60, New Source Performance Standards. TAPCR 1200-03-09-.03(8)
14. The permittee shall apply for renewal of this permit not less than **60** days prior to the permit expiration date pursuant to subparagraph 1200-03-09-.02(3)(a) of the Tennessee Air Pollution Control Regulations.

(End of Conditions)

ASPEN TECHNOLOGIES, INC.

I. EMISSION SOURCE REFERENCE NO: 16-0213-01				NONATTAINMENT: Y		2. LOG # 069318P	
3A. PERMIT STATUS: NEW Y RENEWAL RELOCATION			3B. PREVIOUS PERMIT NUMBER(S): CONSTRUCTION: 968778P		OPERATING:		
4. IDENTIFY IF ONLY A PART OF THE SOURCE IS SUBJECT TO THIS REQUIREMENT	5. POLLUTANT	6. APPLICABLE REQUIREMENT(S): TN AIR POLLUTION CONTROL REGULATIONS, 40 CFR, PERMIT RESTRICTIONS, AIR QUALITY BASED STANDARDS	7. LIMITATION	8. MAXIMUM ACTUAL EMISSIONS		9. MAXIMUM ALLOWABLE EMISSIONS	
All	Particulate	1200-03-07-.04(1)		IN UNITS OF ITEM 7	POUNDS / HOUR	TONS / YEAR	
All	VOC	1200-03-07-.07(2)			-	1.0	
					11.2	21.5	
					4.6	42.7	